

**APPENDIX 3.10-B**

**SUMMARY OF POTENTIAL PUBLIC UTILITIES CONFLICTS**

---

**APPENDIX 3.10-B****SUMMARY OF POTENTIAL PUBLIC UTILITIES CONFLICTS**

**Table 3.10-B-1**  
**Summary of Potential Public Utilities Conflicts by Alternative\***

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>NO PROJECT ALTERNATIVE</b>					
<b>All Study Regions</b>	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
<b>MODAL ALTERNATIVE</b>					
<b>Bay Area to Merced</b>					
Merced to San Jose	High (4)	<b>High (2)</b>	Low (12)	N/A	Low (0)
San Jose to San Francisco (US 101)	High (0)	<b>High (1)</b>	Medium (19)	N/A	Low (0)
San Jose to Oakland (I-880)	Low (0)	Low (0)	Medium (22)	N/A	Low (0)
I-580 to I-5 (via I-238)	High (1)	Low (0)	Low (8)	N/A	Low (0)
San Francisco to Sacramento	High (3)	Low (0)	Medium (19)	N/A	Low (0)
San Jose International Airport	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Oakland International Airport	Low (0)	Low (0)	Low (0)	N/A	Low (0)
<b>Sacramento to Bakersfield</b>					
Sacramento to Stockton	High (85)	<b>High (2)</b>	High (34)	N/A	Low (0)
Stockton to Modesto	High (43)	Low (0)	Low (9)	N/A	Low (0)
Modesto to Merced	High (22)	<b>High (1)</b>	High (13)	N/A	<b>High (1)</b>
Merced to Fresno	High (55)	Low (0)	Medium (25)	N/A	Low (0)
Fresno to Tulare	High (10)	Low (0)	Low (8)	N/A	Low (0)
Tulare to Bakersfield	High (37)	Low (0)	High (39)	N/A	Low (0)
Sacramento International Airport	Low (0)	Low (0)	Low (0)	N/A	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>Bakersfield to Los Angeles</b>					
I-5: SR-99 to SR-14	High (14)	Low (0)	High (88)	High (2)	Low (0)
I-5: SR-14 to I-405	High (6)	Low (0)	Low (5)	Low (0)	Low (0)
I-5: I-405 to Burbank	High (11)	Low (0)	Medium (17)	Low (0)	Low (0)
I-5: Burbank to LA Union Station	High (2)	<b>High (2)</b>	Low (4)	Low (0)	Low (0)
SR-58/14: SR-99 to Palmdale	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
SR-14: Palmdale to I-5	High (20)	Low (0)	Low (14)	Low (0)	Low (0)
Burbank Airport	High (2)	Low (0)	Low (0)	Low (0)	Low (0)
<b>Los Angeles to San Diego via Inland Empire</b>					
Union Station to March Air Reserve Base	High (24)	<b>High (1)</b>	Medium (30)	High (18)	Low (0)
March Air Reserve Base to Mira Mesa	High (4)	Low (0)	Medium (22)	High (2)	Low (0)
Mira Mesa to San Diego	High (5)	Low (0)	Medium (18)	High (4)	Low (0)
Ontario International Airport	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
San Diego International Airport	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
<b>Los Angeles to San Diego via Orange County</b>					
LAX to Union Station	N/A	N/A	N/A	N/A	N/A
Union Station to Irvine	High (14)	Low (0)	High (30)	Low (0)	Low (0)
Union Station to Fullerton Station	High (12)	Low (0)	Medium (16)	Low (0)	Low (0)
Fullerton Station to Irvine Station	High (2)	Low (0)	Low (14)	Low (0)	Low (0)
Irvine Station to San Juan Capistrano City Limits	Low (0)	Low (0)	N/A	Low (0)	Low (0)
San Juan Capistrano	Low (0)	Low (0)	Low (1)	Low (0)	Low (0)
Dana Point/San Clemente	High (9)	Low (0)	Low (1)	Low (0)	Low (0)
Camp Pendleton	Low (0)	Low (0)	N/A	High (2)	Low (0)
Oceanside/Carlsbad	High (3)	Low (0)	Low (7)	Low (0)	Low (0)
Encinitas/Solana Beach	Low (0)	Low (0)	Low (1)	Low (0)	Low (0)
Del Mar	Low (0)	Low (0)	N/A	Low (0)	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
I-5/I-805 Split to Highway 52	Low (0)	Low (0)	Low (2)	High (1)	Low (0)
Highway 52 to Santa Fe Depot	Low (0)	Low (0)	Low (3)	High (1)	Low (0)
Long Beach Airport	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>HIGH-SPEED TRAIN ALTERNATIVE</b>					
<b>Bay Area to Merced</b>					
<b>Merced to San Jose</b>					
Gilroy Option	High (3)	Low (0)	Medium (23)	N/A	Low (0)
Gilroy Bypass Option	High (4)	Low (0)	Medium (23)	N/A	Low (0)
Northern Tunnel Option	High (3)	Low (0)	Low (9)	N/A	Low (0)
Tunnel Under Park Option	High (3)	Low (0)	Low (9)	N/A	Low (0)
Minimize Tunnel Option	High (3)	Low (0)	Low (9)	N/A	Low (0)
Stations:					
Los Banos Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Gilroy Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Morgan Hill Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)
San Jose/Diridon Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
<b>San Jose to San Francisco</b>					
Existing Caltrain Corridor	Low (0)	Low (0)	Medium (24)	N/A	Low (0)
Stations:					
Santa Clara Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)
Palo Alto Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)
Redwood City Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)
Millbrae/SFO Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)
Fourth and King Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)
Transbay Terminal Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>San Jose to Oakland</b>					
I-880 Option	Low (0)	<b>High (1)</b>	Medium (20)	N/A	Low (0)
Mulford Option	Low (0)	<b>High (1)</b>	Medium (18)	N/A	Low (0)
Stations:					
Auto Mall Parkway Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Union City Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Oakland Airport/Coliseum Bart Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
12th Street/City Center Station	Low (0)	Low (0)	Low (1)	N/A	Low (0)
West Oakland Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
<b>Sacramento to Bakersfield</b>					
<b>Sacramento to Stockton</b>					
UPRR (A1)	High (86)	<b>High (1)</b>	Medium (24)	N/A	Low (0)
UPRR (A2)	High (118)	<b>High (3)</b>	Medium (24)	N/A	Low (0)
BNSF (A3)	High (78)	<b>High (1)</b>	Medium (24)	N/A	Low (0)
BNSF (A4)	High (101)	<b>High (3)</b>	Medium (19)	N/A	Low (0)
UPRR (A5)	High (72)	<b>High (2)</b>	Medium (21)	N/A	Low (0)
UPRR (A6)	High (72)	<b>High (1)</b>	Medium (18)	N/A	Low (0)
BNSF (A7)	High (64)	<b>High (2)</b>	Medium (18)	N/A	Low (0)
BNSF (A8)	High (64)	<b>High (1)</b>	Low (15)	N/A	Low (0)
Stations & Maintenance Facilities:					
Sacramento Downtown Depot	High (1)	Low (0)	Low (2)	N/A	Low (0)
Power Inn Road Station (BNSF Option)	High (2)	Low (0)	Low (0)	N/A	Low (0)
Power Inn Road Station (UPRR Option)	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Stockton Ace Downtown Station	High (1)	Low (0)	Low (0)	N/A	Low (0)
Sacramento Maintenance Facility (BNSF Option)	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Sacramento Maintenance Facility (UPRR Option)	High (5)	<b>High (1)</b>	Low (0)	N/A	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>Stockton to Modesto</b>					
UPRR (B1)	High (20)	Low (0)	Low (8)	N/A	Low (0)
BNSF (B2)	High (13)	Low (0)	Low (1)	N/A	Low (0)
Stations:					
Modesto Downtown Station	High (1)	Low (0)	Low (0)	N/A	Low (0)
Modesto Briggsmore Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
<b>Modesto to Merced</b>					
UPRR (C1)	High (16)	Low (0)	Low (8)	N/A	<b>High (1)</b>
UPRR (C2)	High (19)	Low (0)	Low (10)	N/A	Low (0)
UPRR (C3)	High (18)	Low (0)	Low (7)	N/A	Low (0)
UPRR (C4)	High (22)	Low (0)	Low (9)	N/A	Low (0)
BNSF (C5)	High (19)	Low (0)	Low (5)	N/A	Low (0)
BNSF (C6)	High (22)	Low (0)	Low (7)	N/A	Low (0)
BNSF (C7)	High (21)	Low (0)	Low (5)	N/A	Low (0)
BNSF (C8)	High (25)	Low (0)	Low (7)	N/A	Low (0)
UPRR (C9)	High (7)	Low (0)	Low (5)	N/A	Low (0)
UPRR (C10)	High (8)	Low (0)	Low (5)	N/A	Low (0)
BNSF (C11)	High (18)	Low (0)	Low (6)	N/A	Low (0)
BNSF (C12)	High (19)	Low (0)	Low (6)	N/A	Low (0)
BNSF (C13)	High (22)	Low (0)	Low (6)	N/A	Low (0)
BNSF (C14)	High (23)	Low (0)	Low (5)	N/A	Low (0)
BNSF (C15)	High (23)	Low (0)	Low (6)	N/A	Low (0)
BNSF (C16)	High (25)	Low (0)	Low (5)	N/A	Low (0)
Stations:					
Merced Downtown Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Merced Municipal Airport Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Castle Air Force Base Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>Merced to Fresno</b>					
BNSF (D1)	High (20)	Low (0)	Low (9)	N/A	Low (0)
BNSF (D2)	High (29)	Low (0)	Medium (16)	N/A	Low (0)
BNSF (D3)	High (16)	Low (0)	Low (8)	N/A	Low (0)
BNSF (D4)	High (24)	Low (0)	Medium (16)	N/A	Low (0)
UPRR (D5)	High (12)	Low (0)	Low (9)	N/A	Low (0)
UPRR (D6)	High (20)	Low (0)	Low (15)	N/A	Low (0)
UPRR (D7)	High (16)	Low (0)	Low (10)	N/A	Low (0)
UPRR (D8)	High (25)	Low (0)	Low (15)	N/A	Low (0)
Stations:					
Fresno Downtown Station	Low (0)	Low(0)	Low (0)	N/A	Low (0)
<b>Fresno to Tulare</b>					Low (0)
UPRR (E1)	High (8)	Low(0)	Low (7)	N/A	Low (0)
BNSF (E2)	High (4)	Low(0)	Low (7)	N/A	Low (0)
Stations:					
Visalia Airport Station	Low (0)	Low(0)	Low (0)	N/A	Low (0)
Hanford Station	Low (0)	Low(0)	Low (0)	N/A	Low (0)
<b>Tulare to Bakersfield</b>					
UPRR (F1)	High (14)	<b>High (1)</b>	Medium (18)	N/A	<b>High (1)</b>
UPRR (F2)	High (9)	<b>High (1)</b>	Low (14)	N/A	<b>High (1)</b>
UPRR (F3)	High (14)	<b>High (1)</b>	Medium (17)	N/A	<b>High (1)</b>
UPRR (F4)	High (9)	<b>High (1)</b>	Low (13)	N/A	<b>High (1)</b>
BNSF (F5)	High (15)	Low (0)	Low (13)	N/A	<b>High (1)</b>
BNSF (F6)	High (10)	Low (0)	Low (9)	N/A	<b>High (1)</b>
UPRR (F7)	High (14)	<b>High (1)</b>	Medium (18)	N/A	<b>High (1)</b>
UPRR (F8)	High (9)	<b>High (1)</b>	Low (15)	N/A	<b>High (1)</b>
UPRR (F9)	High (14)	<b>High (1)</b>	Medium (17)	N/A	<b>High (1)</b>

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
UPRR (F10)	High (9)	<b>High (1)</b>	Low (13)	N/A	<b>High (1)</b>
BNSF (F11)	High (15)	Low (0)	Low (13)	N/A	<b>High (1)</b>
BNSF (F12)	High (10)	Low (0)	Low (9)	N/A	<b>High (1)</b>
UPRR (F13)	High (11)	<b>High (1)</b>	Low (15)	N/A	<b>High (1)</b>
UPRR (F14)	High (11)	<b>High (1)</b>	Low (14)	N/A	<b>High (1)</b>
UPRR (F15)	High (19)	<b>High (1)</b>	Medium (22)	N/A	Low (0)
UPRR (F16)	High (14)	<b>High (1)</b>	Medium (18)	N/A	Low (0)
UPRR (F17)	High (19)	<b>High (1)</b>	Medium (21)	N/A	Low (0)
UPRR (F18)	High (14)	<b>High (1)</b>	Medium (17)	N/A	Low (0)
UPRR (F19)	High (16)	<b>High (1)</b>	Medium (22)	N/A	<b>High (1)</b>
UPRR (F20)	High (11)	<b>High (1)</b>	Medium (18)	N/A	<b>High (1)</b>
UPRR (F21)	High (16)	<b>High (1)</b>	Medium (21)	N/A	<b>High (1)</b>
UPRR (F22)	High (11)	<b>High (1)</b>	Medium (17)	N/A	<b>High (1)</b>
BNSF (F23)	High (19)	Low (0)	Low (15)	N/A	Low (0)
BNSF (F24)	High (14)	Low (0)	Low (11)	N/A	Low (0)
Stations and Maintenance Facilities:					
Bakersfield Airport Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Golden State Station	High (1)	Low (0)	Low (0)	N/A	Low (0)
Truxton (Union Avenue) Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Truxton (Amtrak) Station	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Main Maintenance Facility (BNSF Option)	Low (0)	Low (0)	Low (0)	N/A	Low (0)
Main Maintenance Facility (UPRR Option)	Low (0)	Low (0)	Low (0)	N/A	Low (0)
<b>Bakersfield to Los Angeles</b>					
<b>Bakersfield to Sylmar</b>					
Union Avenue Corridor	High (1)	Low (0)	Medium (23)	High (2)	Low (0)
I-5: Tehachapi Corridor	High (12)	Low (0)	High (75)	Low (0)	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
Wheeler Ridge Corridor	High (1)	Low (0)	Low (15)	Low (0)	Low (0)
SR 58 Corridor	High (2)	Low (0)	Low (8)	High (1)	High (1)
Soledad Canyon Corridor	High (23)	Low (0)	Medium (21)	Low (0)	Low (0)
Antelope Valley Corridor	Low (0)	Low (0)	Low (4)	Low (0)	Low (0)
Stations:					
Palmdale Siding	Low (0)	Low (0)	Low (2)	Low (0)	Low (0)
<b>Sylmar to Downtown Burbank</b>					
Metrolink/UPRR: Sylmar Station to Metrolink	Low (0)	Low (0)	Low (2)	Low (0)	Low (0)
Burbank Airport to Downtown	Low (0)	Low (0)	Low (1)	Low (0)	Low (0)
Stations:					
Metrolink/UPRR: Sylmar Station North	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Metrolink/UPRR: Sylmar Station Siding	High (4)	Low (0)	Low (5)	Low (0)	Low (0)
Burbank Airport Siding	High (3)	Low (0)	Low (2)	Low (0)	Low (0)
I-5: Burbank Downtown Siding	High (1)	<b>High (1)</b>	Low (4)	Low (0)	Low (0)
<b>Downtown Burbank to Los Angeles</b>					
I-5: Glendale	High (1)	Low (0)	Low (3)	Low (0)	Low (0)
I-5: Silverlake Aerial/Cut and Cover Option	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Metrolink/UPRR: Glendale	High (1)	Low (0)	Low (2)	Low (0)	Low (0)
Metrolink/UPRR: Over and Under I-5 and SR 110	Low (0)	Low (0)	Low (2)	High (1)	Low (0)
Metrolink/UPRR: Over I-5 and SR 110	Low (0)	Low (0)	Low (1)	High (1)	Low (0)
Metrolink/UPRR: Under I-5 and SR 110	Low (0)	Low (0)	Low (3)	High (1)	Low (0)
LAUS Existing: South	High (4)	Low (0)	Low (4)	Low (0)	Low (0)
LAUS Existing: East	High (8)	Low (0)	Low (5)	Low (0)	Low (0)
South Connection	Low (0)	Low (0)	Low (7)	Low (0)	Low (0)
East Connection	High (3)	Low (0)	Low (2)	Low (0)	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
LAUS East Bank: North	Low (0)	Low (0)	Low (2)	High (1)	Low (0)
Stations:					
Burbank Downtown Siding	Low (0)	Low (0)	Low (5)	Low (0)	Low (0)
Metrolink/UPRR: Burbank Downtown Siding	High (2)	Low (0)	Low (5)	Low (0)	Low (0)
LAUS Existing Siding	Low (0)	Low (0)	Low (2)	Low (0)	Low (0)
Maintenance Yard	High (3)	Low (0)	Low (10)	High (1)	Low (0)
LAUS South Siding	Low (0)	Low (0)	Low (6)	Low (0)	Low (0)
LAUS East Bank Siding	High (4)	Low (0)	Low (7)	Low (0)	Low (0)
<b>Los Angeles to San Diego via Inland Empire</b>					
<b>Union Station to March ARB</b>					
UP/Colton Line	High (22)	<b>High (1)</b>	High (46)	High (30)	Low (0)
UP/Colton Line via San Bernardino	High (18)	<b>High (4)</b>	High (48)	High (31)	Low (0)
UP/Riverside Line – UP/Colton Line	High (23)	<b>High (4)</b>	High (37)	High (33)	Low (0)
UP/Riverside Line – UP/Colton Line via San Bernardino	High (19)	<b>High (7)</b>	High (39)	High (34)	Low (0)
Stations:					
El Monte Station	Low (0)	Low (0)	Low (1)	Low (0)	Low (0)
Pomona Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Ontario Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Colton Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
University of California Riverside Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
South El Monte Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
City of Industry Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
San Bernardino Station	Low (0)	Low (0)	Low (1)	Low (0)	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>March ARB to Mira Mesa</b>					
San Jacinto to I-15 via Escondido	High (6)	<b>High (1)</b>	Low (12)	High (8)	Low (0)
San Jacinto to I-15 via Escondido Transit Center	High (6)	<b>High (1)</b>	Low (12)	High (6)	Low (0)
Stations:					
March ARB Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Temecula Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Escondido Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Escondido Transit Center Station	Low (0)	Low (0)	Low (1)	Low (0)	Low (0)
<b>Mira Mesa to San Diego</b>					
I-15 to Coast via Miramar Road	High (3)	<b>High (1)</b>	Low (7)	High (10)	Low (0)
I-15 to Coast via Carroll Canyon	High (3)	<b>High (1)</b>	Low (9)	High (9)	Low (0)
I-15 to Qualcomm Stadium	High (1)	Low (0)	Low (4)	High (1)	Low (0)
Stations:					
Mira Mesa Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
Qualcomm Stadium Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
University Transit Center Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
San Diego International Airport Station	Low (0)	Low (0)	Low (0)	Low (0)	Low (0)
San Diego Station at Santa Fe Depot	High (1)	Low (0)	Low (0)	Low (0)	Low (0)
<b>Los Angeles to San Diego via Orange County – HST Corridor</b>					
<b>Los Angeles International Airport to Union Station</b>					
LAX to Union Station	High (6)	Low (0)	High (41)	Low (0)	Low (0)
Stations:					
LAX Station	Low (0)	Low (0)	Low (3)	Low (0)	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>Union Station to Irvine</b>					
Union Station to Anaheim Station via UPRR	High (16)	<b>High (1)</b>	Medium (28)	Low (0)	Low (0)
Union Station to Irvine Station via LOSSAN	High (19)	<b>High (1)</b>	Medium (30)	Low (0)	Low (0)
Stations:					
Norwalk Station	Low (0)	Low (0)	Low (1)	Low (0)	Low (0)
Fullerton Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Anaheim Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Santa Ana Station	Low (0)	Low (0)	Low (2)	Low (0)	Low (0)
Irvine Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>Los Angeles to San Diego via Orange County – Conventional Rail Corridor</b>					
<b>Union Station to Fullerton Station</b>					
4th Main Track	High (15)	Low (0)	Medium (24)	Low (0)	Low (0)
<b>Fullerton Station to Irvine Station</b>					
At-grade Between Walnut Ave. and E. 17th St.	High (4)	<b>High (1)</b>	Low (6)	Low (0)	Low (0)
Trench Between Walnut Ave. and E. 17th St.	High (4)	<b>High (1)</b>	Low (6)	Low (0)	Low (0)
Stations:					
Fullerton Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Anaheim Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Santa Ana Station	Low (0)	Low (0)	Low (2)	Low (0)	Low (0)
Irvine Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>Irvine Station to San Juan Capistrano City Limits</b>					
No Improvements	N/A	N/A	N/A	N/A	N/A

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>San Juan Capistrano</b>					
Covered Trench/Cut-fill Between Trabuco Creek and Avenida Aeropuerto	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Tunnel Along I-5 Between Hwy 73 and Avenida Aeropuerto	Low (0)	Low (0)	N/A	Low (0)	Low (0)
At-grade and Open Trench Along East Side of Trabuco Creek	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Stations:					
San Juan Capistrano	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>Dana Point/San Clemente</b>					
Dana Point Curve Realignment; San Clemente - Short Trench	Low (0)	Low (0)	Low (1)	High (1)	Low (0)
Dana Point Curve Realignment; San Clemente - Long Trench	Low (0)	Low (0)	Low (1)	High (1)	Low (0)
Dana Point Curve Realignment; San Clemente - Short Tunnel	Low (0)	Low (0)	Low (1)	High (1)	Low (0)
San Clemente - Long One-Segment Tunnel	Low (0)	Low (0)	Low (1)	High (1)	Low (0)
San Clemente - Long Two-Segment Tunnel	Low (0)	Low (0)	Low (1)	High (1)	Low (0)
Stations:					
San Clemente	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>Camp Pendleton</b>					
Double Tracking – San Onofre Power Plant to Oceanside City Limits	Low (0)	Low (0)	N/A	High (2)	Low (0)
<b>Oceanside/Carlsbad</b>					
Carlsbad – At-grade	High (2)	Low (0)	N/A	High (1)	Low (0)
Carlsbad – Trench	High (2)	Low (0)	N/A	High (1)	Low (0)
Stations:					
Oceanside Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)

	Electrical Transmission Lines	Electrical Sub or Power Stations	Natural Gas Pipelines	Wastewater Treatment Pipelines	Wastewater Treatment Plants
<b>Encinitas/Solana Beach</b>					
Encinitas – At-grade	Low (0)	Low (0)	N/A	High (1)	Low (0)
Encinitas – Short Trench	Low (0)	Low (0)	N/A	High (1)	Low (0)
Encinitas – Long Trench	Low (0)	Low (0)	N/A	High (1)	Low (0)
Stations:					
Solana Beach Station	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>Del Mar</b>					
Covered Trench on Bluffs	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Tunnel Under Camino Del Mar	Low (0)	Low (0)	N/A	Low (0)	Low (0)
Tunnel Along I-5	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>I-5/I-805 Split to Highway 52</b>					
Miramar Hill Tunnel	Low (0)	Low (0)	Low (9)	High (1)	Low (0)
I-5 Tunnel	Low (0)	Low (0)	Low (9)	High (1)	Low (0)
Stations:					
UTC	Low (0)	Low (0)	N/A	Low (0)	Low (0)
<b>Highway 52 to Santa Fe Depot</b>					
Curve Realignment; Double Tracking; Trench Between Sassafras St. and Cedar St.	Low (0)	Low (0)	Low (4)	High (1)	Low (0)
Stations:					
Santa Fe Depot	High (1)	Low (0)	N/A	Low (0)	Low (0)
Notes:					
Low	Low potential for conflicts (No 230-kV power lines or electrical facilities, 1 to 15 gas or oil pipelines, no wastewater pipelines or facilities).				
Medium	Medium potential for conflicts (16 to 30 gas pipelines). There is no medium ranking for electrical facilities and wastewater treatment facilities. Potential impacts for these two utilities were considered low if there were no conflicts and were considered high if there was one or more conflicts due to the large size, high construction cost and time, and potential for service interruption associated with these facilities.				
High	High potential for conflicts (One or more 230-kV power lines or electrical facilities, 31 or more gas or oil pipelines, one or more wastewater pipelines or facilities)				
* Numbers shown in bold highlight the potential conflicts between the alignment option and fixed facilities such as electrical sub and power stations and wastewater treatment plants.					